

## Combretastatin A-1 phosphate tetrasodium Biochemical

Combretastatin A-1 phosphate tetrasodium

CATALOG #  
**AAA228624**

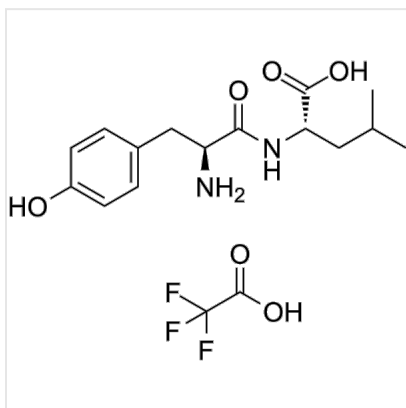
### PRODUCT SYNONYMS

Combretastatin A-1 phosphate tetrasodium; Tyr-Leu TFA; Combretastatin A-1 phosphate tetrasodium biochemical

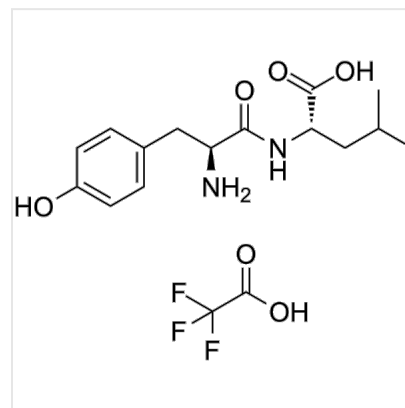
### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purity/Purification     | 98%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| CAS                     | 288847-34-7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Solubility              | <1mg/ml refers to the product slightly soluble or insoluble                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| In vitro                | Combretastatin A-1 phosphate (1-4mg/kg; i.v. every other day for 4 weeks) significantly reduces the tumor volume in HepG2 subcutaneous xenograft model[2]. Combretastatin A-1 phosphate (2 mg/kg; every other day for 21 days) shows enhanced apoptosis in orthotopic hepatocellular carcinoma mouse model[2]. Animal Model: Male athymic BALB/c nu/nu mice (16-18 g; 4-6 weeks old) were inoculated with HepG2 cells[2]. Dosage: 1, 2, 4 mg/kg. Administration: I.v. every other day for 4 weeks. Result: Resulted in a significant tumor volume reduction at the dose of 2 mg/kg or 4 mg/kg. |
| Preparation and Storage | Powder: -20 degree C for 3 years<br>In solvent: -80 degree C for 2 years                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

### IMAGES



Structure  
Tyrosylleucine TFA, CAS 66852-01-5



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### ADDITIONAL INFORMATION

#### Related Product Information for Combretastatin A-1 phosphate tetrasodium biochemical

Combretastatin A-1 phosphate (OXi-4503) tetrasodium, a prodrug of Combretastatin A-1, is a microtubule polymerization inhibitor that binds to the colchicine-binding site of tubulin. Combretastatin A-1 phosphate tetrasodium inhibits the Wnt/beta-catenin pathway through tubulin depolymerization mediated AKT deactivation. Combretastatin A-1 phosphate tetrasodium exhibits anti-tumor and anti-vascular effects.

## References

1. Takafumi Mizushige, et al. Dipeptide tyrosyl-leucine exhibits antidepressant-like activity in mice. Sci Rep. 2020 Feb 10;10(1):2257.
2. Norimasa Kanegawa, et al. Dipeptide Tyr-Leu (YL) exhibits anxiolytic-like activity after oral administration via activating serotonin 5-HT1A, dopamine D1 and GABAA receptors in mice. FEBS Lett. 2010 Feb 5;584(3):599-604.

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/biochemical/combretastatin-a-1-phosphate-tetrasodium/228624>