

KMG-104 biochemical

KMG-104

CATALOG #
AAA228903

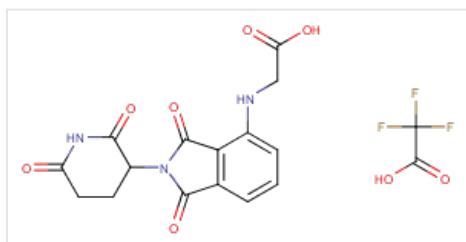
PRODUCT SYNONYMS

KMG-104; trifluoroacetic acid; KMG-104 biochemical

PRODUCT SPECIFICATIONS

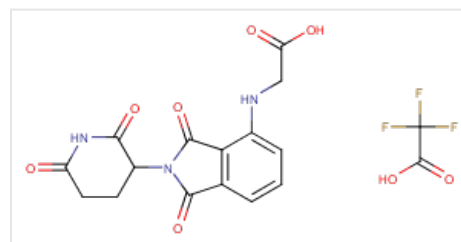
Purity/Purification	98%
CAS	852057-94-4
Solubility	<1mg/ml refers to the product slightly soluble or insoluble
In vitro	KMG-104 is useful for confocal laser scanning microscopy because it is excited at 490 nm, and emitted fluorescence around 510 nm. Fluorescent intensity of KMG-104 increases with [Mg] increase, and it shows no response to Na, K, and Ca; the dissociation constant (K _d) for Mg is 3 mM. KMG-104 is able to trace only [Mg] change in physiological conditions[2]. PC12 cells are loaded with a novel Mg indicator KMG-104 and Ca indicator fura-2, and intracellular Mg is studied in the endoplasmic reticulum (ERs), mitochondria, and Mg-ATP[2].
Preparation and Storage	Powder: -20 degree C for 3 years In solvent: -80 degree C for 2 years

IMAGES



Structure

2-[[2-(2,6-dioxopiperidin-3-yl)-1,3-dioxo-2,3-dihydro-1H-isindol-4-yl]amino]acetic acid, CAS 2377032-39-6



Structure

2-[[2-(2,6-dioxopiperidin-3-yl)-1,3-dioxo-2,3-dihydro-1H-isindol-4-yl]amino]acetic acid, CAS 2377032-39-6

ADDITIONAL INFORMATION

Related Product Information for KMG-104 biochemical	KMG-104 is a highly selective fluorescent Mg ²⁺ probe. KMG-104 has been used widely and revealed Mg ²⁺ mobilization in cytoplasm in various types of cells.
Product Categories/Family for KMG-104 biochemical	Others
References	1. Joudan S, Silva A, Young C J. Insufficient evidence for the existence of natural trifluoroacetic acid[J]. Environmental Science: Processes & Impacts.

NCBI AND UNIPROT INFORMATION

Molecular Weight	445.307
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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/kmg-104/228903>