

Glutathione peroxidase 2 (GPX2) Recombinant Protein | GPX2 recombinant protein

Recombinant Pongo pygmaeus Glutathione peroxidase 2 (GPX2)

CATALOG # AAA117480	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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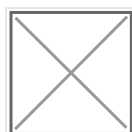
PRODUCT SYNONYMS

Glutathione peroxidase 2 (GPX2); Recombinant Pongo pygmaeus Glutathione peroxidase 2 (GPX2); GPX2 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1-190, full length protein
Sequence	MAFIKSFYD LSAISLDGEK VDFNTFRGRA VLIENVASLU GTTTRDFTQL NELQCRFP RR LVVLGFPCNQ FGHQENCQNE EILNSLKYVR PGSGYQPTFT LVQKCEVNGQ NEHPVFAYLK DKLPPYDDP FSLMTDPKLI IWSPVRRSDV AWNFEKFLIG PEGEPFRYS RTFPTINIEP DIKRLKVAI
Sequence Length	190
Species	Pongo pygmaeus (Bornean orangutan)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.

IMAGES



Sequence

The Pongo pygmaeus Glutathione peroxidase 2 (GPX2) Uniprot (Q4AEI0) sequence contains one 'U' (red arrowhead). The 'U' selenocysteine is encoded by UGA and is typically used as a stop codon in prokaryotic cells, leading to early termination of translation. The lab mutates this selenocysteine to 'S' serine for protein manufacture. In terms of the formation of selenocysteine, selenocysteine is a derivative of serine. Selenocysteine, cysteine and serine are highly similar. Selenocysteine can be regarded as either the 'S' atom of cysteine replaced by Se (selenium atom), or the 'O' atom of serine replaced by Se (selenium atom), and 'U' can be mutated to serine or cysteine. Generally, the lab mutates 'U' to serine for protein expression because mutating the 'U' to cysteine can cause the formation of additional disulfide bonds and may negatively affect protein expression and structure.

NCBI AND UNIPROT INFORMATION

NCBI GI #	182637575
UniProt Accession #	Q4AEI0; Q5RDD1
Molecular Weight	21,984 Da
NCBI Official Full Name	Glutathione peroxidase 2
UniProt Protein Name	Glutathione peroxidase 2

UniProt Gene Name	GPX2
UniProt Synonym Gene Names	GPx-2; GSHPx-2; GPx-GI; GSHPx-GI

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/gpx2-recombinant-protein-e-coli-or-yeast-or-baculovirus-or-mammalian-cell/117480>