Recombinant GSTA5 protein (His tag)

Catalog Number	549807
Synonyms	GST class-alpha member 5; Glutathione S-transferase A5-5
Species	Human
Expression System	E. coli
Accession	Q7RTV2
Molecular Weight	Predictes a molecular mass of 27.25 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 29 kDa band.

Product Information

Sequence Region	2-222
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 2-222 aa (Q7RTV2) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Human Glutathione S-transferase A5 (GSTA5) fragment (residues 2-222) is a high-purity protein designed for functional studies. This fragment fully encompasses the GST N-terminal and C-terminal domains, making it an ideal tool for investigating glutathione conjugation and detoxification mechanisms in cellular systems. Glutathione S-transferase A5 (EC 2.5.1.18) is a member of the GST class-alpha family that plays a critical role in cellular detoxification by catalyzing the conjugation of glutathione to various electrophilic compounds. As indicated by its subcellular localization in the cytoplasm, GSTA5 functions in the primary cellular compartment for metabolic processing and protection against oxidative stress. The full-length protein's cytoplasmic presence suggests involvement in fundamental cellular defense mechanisms against xenobiotics and reactive oxygen species.