Recombinant UD2A2 protein (His tag)

Catalog Number	546741
Synonyms	UDPGT 2A2
Species	Human
Expression System	E. coli
Accession	P0DTE5
Molecular Weight	Predictes a molecular mass of 54.23 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 54 kDa band.

Product Information

Sequence Region	37-500
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, 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 37-500 aa (P0DTE5) 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 UDP-glucuronosyltransferase 2A2 (UGT2A2) Fragment (residues 37-500) is a high-purity protein designed for structural and biochemical studies. This 464-amino acid fragment retains key functional regions, offering a stable and soluble alternative for investigating phase II biotransformation and detoxification mechanisms. UDP-glucuronosyltransferase 2A2 (UGT2A2) is a human endoplasmic reticulum membrane enzyme critical for phase II biotransformation, where it conjugates glucuronic acid to lipophilic substrates to enhance water solubility and facilitate excretion. It plays essential roles in detoxifying drugs, xenobiotics, and endogenous compounds, including estrogen hormones like estradiol and bile acids, contributing to metabolic clearance and protection against toxic compounds in amniotic fluid and airborne chemicals. Located in the endoplasmic reticulum as a multi-pass membrane protein, UGT2A2 supports vital physiological processes by promoting the elimination of potentially harmful substances.