Recombinant UD2A3 protein (His tag)

Catalog Number	550402
Synonyms	UDPGT 2A3
Species	Human
Expression System	E. coli
Accession	Q6UWM9
Molecular Weight	Predictes a molecular mass of 55.18 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 55 kDa band.

Product Information

Sequence Region	24-491
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 24-491 aa (Q6UWM9) 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	This product is a recombinant fragment of the human UDP-glucuronosyltransferase 2A3 (UDPGT 2A3), covering amino acids 24-491. It is designed as a stable and soluble unit ideal for structural studies and biochemical assays, enabling researchers to investigate phase II biotransformation mechanisms. UDP-glucuronosyltransferases are critical enzymes in phase II biotransformation, where they conjugate lipophilic substrates with glucuronic acid to enhance water solubility and facilitate excretion. This process is essential for detoxifying xenobiotics and metabolizing endogenous compounds. The full-length UDPGT 2A3 is a membrane-bound, single-pass type I protein, underscoring its role in cellular detoxification pathways and its importance in pharmacological and toxicological research.