Recombinant NPT2B protein (His tag)

Catalog Number	541925
Synonyms	Sodium-phosphate transport protein 2B; Na(+)-dependent phosphate cotransporter 2B; NaPi3b; Sodium/phosphate cotransporter 2B; Na(+)/Pi cotransporter 2B; NaPi-2b; Solute carrier family 34 member 2
Species	Human
Expression System	E. coli
Accession	O95436
Molecular Weight	Predictes a molecular mass of 16.40 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 16 kDa band.

Product Information

Sequence Region	234-362
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 234-362 aa (O95436) 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 SLC34A2 Protein Fragment (234-362) is a high-quality, stable, and soluble protein product derived from the Sodium-dependent phosphate transport protein 2B. This fragment is specifically designed for structural and biochemical studies, offering researchers a reliable tool to investigate phosphate transport mechanisms mediated by Na(+) cotransport. The full-length Sodium-dependent phosphate transport protein 2B, encoded by the SLC34A2 gene, plays a critical role in actively transporting phosphate into cells through Na(+) cotransport. This protein is localized to the apical cell membrane, where it functions as a multi-pass membrane protein. It is particularly abundant at the brush border membranes of enterocytes, highlighting its importance in phosphate absorption and homeostasis in the human body. The provided fragment represents a computationally selected, stable region ideal for advancing research on this transporter's function and interactions.