Recombinant TP8L2 protein (His tag)

Catalog Number	547514
Synonyms	TIPE2; TNF alpha-induced protein 8-like protein 2; TNFAIP8-like protein 2; Inflammation factor protein 20
Species	Human
Expression System	E. coli
Accession	Q6P589
Molecular Weight	Predictes a molecular mass of 22.21 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 22 kDa band.

Product Information

Sequence Region	1-184
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 1-184 aa (Q6P589) 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 TIPE2 Protein Fragment (1-184) - A highly purified, stable fragment of Tumor Necrosis Factor Alpha-Induced Protein 8-Like Protein 2, designed for structural and functional studies of this critical immune regulator. This soluble fragment maintains key functional domains, making it ideal for investigating immune homeostasis mechanisms and signaling pathway regulation. Tumor Necrosis Factor Alpha-Induced Protein 8-Like Protein 2 (TIPE2) serves as a crucial negative regulator of both innate and adaptive immunity, maintaining immune homeostasis. The full-length protein functions as a key modulator in Toll-like signaling pathways, controlling LPS-induced signaling strength and gene expression. TIPE2 inhibits TCR-mediated T-cell activation to prevent hyperresponsiveness and regulates NK-cell maturation and antitumor immunity by suppressing IL-15-triggered mTOR activity. Additionally, it inhibits autolysosome formation by negatively modulating MTOR activation through interaction with RAC1. The protein localizes to multiple cellular compartments including the cytoplasm, nucleus, and lysosomes, reflecting its diverse regulatory roles across different cellular processes. This recombinant fragment represents a stable, soluble unit containing the complete functional domain structure for comprehensive biochemical analysis.