

Recombinant Human ALKL2 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50028

Size: 10ug, 100ug

Protein Name: ALK and LTK ligand 2 (Augmentor alpha) (AUG-alpha)

Synonym: ALKAL2, FAM150B, UNQ542/PRO1097

UniProt ID: Q6UX46

UniProt Link: www.uniprot.org/uniprotkb/Q6UX46/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 152 AA

Molecular Weight: 17 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MRGPGHPLLLGLLLVLGAAGRGRGGAEPREPADGQALLRLVVELVQELRKHHSAEHKGLQLLGRD
CALGRAEAAGLGPSPEQRVEIVPRDLRMKDKFLKHLTGPLYFSPKCSKHFHRLYHNTRDCTIPAYYK
RCARLLTRLAVSPVCMEDKQ

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant ALK and LTK ligand 2 (Augmentor alpha) (AUG-alpha) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Cytokine that acts as a physiological ligand for receptor tyrosine kinases LTK and ALK, leading to their activation (PubMed:26418745, PubMed:26630010, PubMed:30061385, PubMed:33411331, PubMed:34646012, PubMed:34819673). Cytokine-binding is sufficient to activate LTK (PubMed:34646012). In contrast, ALKAL2-driven activation of ALK is coupled with heparin-binding to ALK (PubMed:34646012). Stimulation of ALK signaling is involved in neural development and regulation of energy expenditure (PubMed:34646012, PubMed:34819673).

Subcellular Localization: Secreted . Cell membrane . Note=Following interaction with receptor tyrosine kinase ALK, associates with the cell membrane, membrane-binding is required to activate ALK.

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.