BLOC1S2 Protein, Human (GST)

Cat. No.:	HY-P76171
Synonyms:	Biogenesis of lysosome-related organelles complex 1 subunit 2; BLOC-1 subunit 2; BLOS2; CEAP
Species:	Human
Source:	E. coli
Accession:	Q6QNY1-2 (M1-R99)
Gene ID:	282991
Molecular Weight:	Approximately 11.35 kDa.

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	BLOC1S2 protein is a vital component of the BLOC-1 complex, crucial for the normal biogenesis of lysosome-related organelles (LRO), including platelet dense granules and melanosomes. Together with the AP-3 complex, the BLOC-1 complex is essential for directing membrane protein cargos into vesicles formed at cell bodies, facilitating their delivery into neurites and nerve terminals. The BLOC-1 complex, in conjunction with SNARE proteins, is also implicated in neurite extension. As a part of the BORC complex, BLOC1S2 may contribute to the movement and localization of lysosomes at the cell periphery, associating with the cytosolic face of lysosomes and potentially recruiting ARL8B to couple lysosomes to microtubule plus-end-directed kinesin motors. Additionally, BLOC1S2 may play a role in cell proliferation as part of the biogenesis of lysosome-related organelles complex 1 (BLOC-1) and the BLOC-one-related complex (BORC), interacting with various components within these complexes, including BLOC1S1, BLOC1S3, BLOC1S4, BLOC1S5, SNAPIN, and IFT57.

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