
Product Data Sheet

Product Name: BLOC1S5 Human
 Cat. No.: GP23974
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Biogenesis of lysosome-related organelles complex 1 subunit 5; BLOC-1 subunit 5; Protein Muted homolog; BLOC1S5; MUTED.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMSGGGTE TPVGCEAAPG GSKKRDSL TAGSAHLIK DLGEIHSRL DHRPVIQGET RYFVKEFEK RGLREMRVLE NLKNMIHETN EHTLPKCRDT MRDSLSQVLQ RLQAANDSVC RLQREQERK KIHSDHLVAS EKQHMLQWDN FMKEQPNKRA EVDEEHRKAM ERLKEQYAEM EKDLAKFSTF.		
Formulation	BLOC1S5 protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl, 40% glycerol, 2mM DTT, 0.1mM PMSF and 1mM EDTA.		

Introduction

Muted homolog (MUTED) is a component of the BLOC-1 complex, a complex which is necessary for normal biogenesis of lysosome-related organelles (LRO), such as platelet dense granules and melanosomes. The BLOC-1 complex is needed to steer membrane protein cargos into vesicles assembled at cell bodies for release into neurites and nerve terminals. In addition, this complex, along with SNARE proteins, is suggested to be involved in neurite extension. MUTED also interacts with pallidin, dystrobrevin binding protein 1 and CNO/cappuccino. MUTED is ubiquitously expressed with higher levels in the brain, bone marrow, kidney, and liver and lower levels in the skeletal muscle.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Caution: Product has not been fully validated for medical applications. For research use only.

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Background

BLOC1S5 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 210 amino acids (1-187 a.a) and having a molecular mass of 24kDa. BLOC1S5 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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