

## 32-4254: Recombinant Human MUTED

**Alternative Name :** Biogenesis of lysosome-related organelles complex 1 subunit 5, BLOC-1 subunit 5, Protein Muted homolog, BLOC1S5, MUTED.

### Description

Source : Escherichia Coli. 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. 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.

### Product Info

**Amount :** 10 µg  
**Purification :** Greater than 90.0% as determined by SDS-PAGE.  
**Content :** 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.  
**Storage condition :** 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.  
**Amino Acid :** MGSSHHHHHH SGLVPRGSH MGSMGGGTE TPGVCEAAPG GGSKKRDSLGTAGSAHLIK  
DLGEIHSRLL DHRPVIQGET RYFVKEFEEL RGLREMRVLE NLKNMIHETN EHTLPKCRDT MRDLSLQVLQ  
RLQAANDSVC RLQREQERK KIHSDHLVAS EKQHMLQWDN FMKEQPNKRA EVDEEHRKAM  
ERLKEQYAEM EKDLAKFSTF.