

# Human BLOC1S2 / BLOS2 Protein (GST Tag)



**Sino Biological Inc.**  
Biological Solution Specialist

Catalog Number: 13916-H09E

## General Information

### Gene Name Synonym:

BLOS2; CEAP; CEAP11; 2410089B13Rik; Bloc1s2a; BLOS2

### Protein Construction:

A DNA sequence encoding the human BLOC1S2 (Q6QNY1-2) (Met1-Arg99) was fused with the GST tag at the N-terminus.

**Source:** Human

**Expression Host:** E. coli

## QC Testing

**Purity:** > 74 % as determined by SDS-PAGE

### Endotoxin:

Please contact us for more information.

### Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

**Predicted N terminal:** Met

### Molecular Mass:

The recombinant human BLOC1S2 /GST chimera consists of 333 amino acids and has a predicted molecular mass of 38.7 kDa. It migrates as an approximately 39 kDa band in SDS-PAGE under reducing conditions.

### Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

## Usage Guide

### Storage:

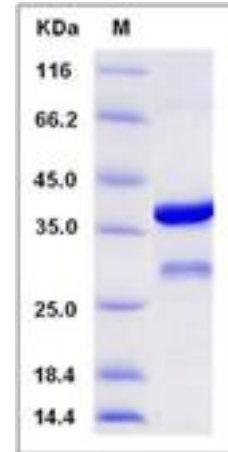
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

**Avoid repeated freeze-thaw cycles.**

### Reconstitution:

Detailed reconstitution instructions are sent along with the products.

## SDS-PAGE:



## Protein Description

BLOC1S2, also known as BLOS2, belongs to the BLOC1S2 family. It is a component of BLOC-1 complex. The BLOC-1 complex is composed of BLOC1S1, BLOC1S2, BLOC1S3, DTNBP1, MUTED, PLDN, CNO/cappuccino and SNAPIN. The BLOC-1 complex is required for normal biogenesis of lysosome-related organelles, such as platelet dense granules and melanosomes. BLOC1S2 interacts directly with BLOC1S1, BLOC1S3, MUTED, CNO/cappuccino and SNAPIN. It may play a role in cell proliferation. It also plays a role in intracellular vesicle trafficking. Functionally, BLOC1S2 gene has been proposed to participate in processes (melanosome organization, microtubule nucleation, platelet dense granule organization, positive regulation of cell proliferation, positive regulation of transcription, regulation of apoptosis, positive regulation of transcription from RNA polymerase II promoter).

## References

- 1.Sowa ME, *et al.* (2009) Defining the human deubiquitinating enzyme interaction landscape. *Cell*. 138(2):389-403.
- 2.Gdynia G, *et al.* (2008) BLOC1S2 interacts with the HIPPI protein and sensitizes NCH89 glioblastoma cells to apoptosis. *Apoptosis*. 13(3):437-47.
- 3.Starcevic M, *et al.* (2004) Identification of snapin and three novel proteins (BLOS1, BLOS2, and BLOS3/reduced pigmentation) as subunits of biogenesis of lysosome-related organelles complex-1 (BLOC-1). *J Biol Chem*. 279(27):28393-401.

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