

BCAM Protein, Human, Recombinant (His)

General Information

Synonyms:	basal cell adhesion molecule (Lutheran blood group);LU;AU;MSK19;CD239
Protein Construction:	Glu32-Ala547
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P50895
Molecular Weight:	57.32 kDa (Predicted); 70-80 kDa (Due to glycosylation)

QC Testing

Biological Activity:	Activity testing is not tested. It is theoretically active, but we cannot guarantee it.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 μ m filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Lutheran/basal cell adhesion molecule (Lu/BCAM) is a transmembrane adhesion molecule expressed by erythrocytes and endothelial cells that can interact with the extracellular matrix protein laminin- α 5. In sickle cell disease, Lu/BCAM is thought to contribute to adhesion of sickle erythrocytes to the vascular wall, especially during vaso-occlusive crises.

Reference

- Kikkawa Y, et al. (2005) Review: Lutheran/B-CAM: a laminin receptor on red blood cells and in various tissues. *Connect Tissue Res.* 46 (4-5): 193-9.
- El Nemer W, et al. (2007) Endothelial Lu/BCAM glycoproteins are novel ligands for red blood cell alpha4beta1 integrin: role in adhesion of sickle red blood cells to endothelial cells. *Blood.* 109 (8): 3544-51.
- Colin Y, et al. (2008) Red cell and endothelial Lu/BCAM beyond sickle cell disease. *Transfus Clin Biol.* 15 (6): 402-5.
- El Nemer W, et al. (2008) Role of Lu/BCAM in abnormal adhesion of sickle red blood cells to vascular endothelium. *Transfus Clin Biol.* 15 (1-2): 29-33.

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