Human Reg4 Protein, His Tag

Catalog # RE4-H5221

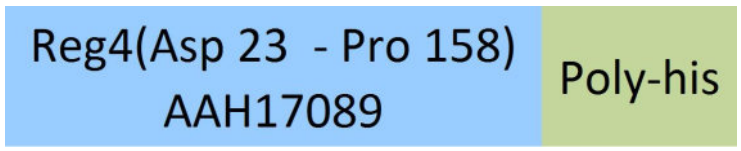
Synonym

REG4,GISP,REG-IV,RELP

Source

Human Reg4, His Tag (RE4-H5221) is expressed from human 293 cells (HEK293). It contains AA Asp 23 - Pro 158 (Accession # AAH17089). Predicted N-terminus: Asp 23

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 16.7 kDa. The protein migrates as 18 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

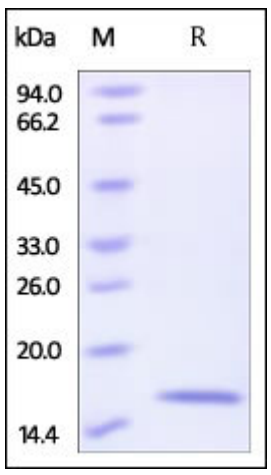
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

No activity loss was observed after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Human Reg4, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Background

Regenerating islet-derived protein 4 (REG4) is also known as Gastrointestinal secretory protein (GISP), REG-like protein (RELP). REG4 contains one C-type lectin domain. REG4 has calcium-independent lectin displaying mannose-binding specificity and able to maintain carbohydrate recognition activity in an acidic environment. REG4 may be involved in inflammatory and metaplastic responses of the gastrointestinal epithelium.

References

(1) Kaemaeraeinen M., et al., 2003, Am. J. Pathol. 163:11-20.

(2) Ho M.R., et al., 2010, J. Mol. Biol. 402:682-695.

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.