



Recombinant Protein Technical Manual

Recombinant Human BLVRA Protein (His Tag)

RPES3440

Product Data:

Product SKU: RPES3440

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: P53004

Protein Information:

Molecular Mass: 33.8 kDa

AP Molecular Mass: 40 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.

Formulation: Supplied as a 0.2 µm filtered solution of 20mM Tris, 150mM NaCl, 0.05% Brij35, 20% Glycerol, pH 8.0.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: BLVRA; Biliverdin reductase A; BVR A; Biliverdin-IX alpha-reductase; BLVR; BVR

Immunogen Information:

Sequence: Glu6-Ser294

Background:

Human Biliverdin reductase A (BLVRA) is belonged to the Gfo/Idh/MocA family and Biliverdin reductase subfamily. BLVRA is an enzyme that in humans is encoded by the BLVRA gene. BLVRA plays an important role in reducing the gamma-methene bridge of the open tetrapyrrole, biliverdin IX alpha, to bilirubin with the concomitant oxidation of a NADH or NADPH cofactor. BLVRA acts on biliverdin by reducing its double-bond between the pyrrole rings into a single-bond. It accomplishes this using NADPH + H⁺ as an electron donor, forming bilirubin and NADP⁺ as products.