Recombinant Rat ADP protein (His Tag)

Catalog Number: PDER100179

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

Species	Rat
Source	E.coli-derived Rat ADP protein Ile19-Asn244, with an N-terminal His
Calculated MW	24.8 kDa
Observed MW	30 kDa
Accession	Q8K3R4
Bio-activity	Not validated for activity

Properties

Purity	> 95% as determined by reducing SDS-PAGE.
Endotoxin	< 10 EU/mg of the protein as determined by the LAL method
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 ℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with 5% Trehalose and 5% Mannitol.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis.

Data
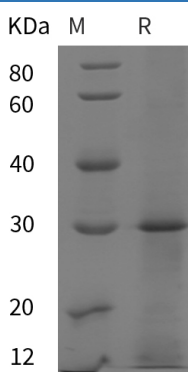
> 95 % as determined by reducing SDS-PAGE.

Background

Adiponectin (AdipoQ),an adipocyte-derived hormone,is one of the most abundant adipokines in the blood circulation. Adiponectin modulates a number of metabolic processes,including improving insulin sensitivity and anti-inflammatory activity. The role of AdipoQ in reproduction is not yet fully understood,but the expression of AdipoQ in reproductive tissues has been observed in various animals and humans,including chicken testis,bovine ovary,and human placenta. Adiponectin exerts its effects by activating a range of different signaling molecules via binding to two transmembrane AdipoQ receptors,AdipoR1 and AdipoR2. AdipoR1 is expressed primarily in the skeletal muscle,whereas AdipoR2 is predominantly expressed in the liver. AdipoQ May play a role in cell growth,angiogenesis and tissue remodeling by binding and sequestering various growth factors.

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