

NRBF2 Protein, Human, Recombinant (His & GST)

General Information

Synonyms:	NRBF-2;nuclear receptor binding factor 2;COPR2;COPR1
Protein Construction:	A DNA sequence encoding the human NRBF2 (Q96F24-1) (Met1-Asn287) was expressed with the N-terminal polyhistidine-tagged GST tag at the N-terminus. Predicted N terminal: Met
Species:	Human
Expression Host:	Baculovirus Insect Cells
Accession:	Q96F24-1
Molecular Weight:	60.2 kDa (predicted); 61 kDa (reducing conditions)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing 20 mM Tris, 500 mM NaCl, 10% glycerol, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:
A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

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

NRBF2 (Nuclear Receptor Binding Factor 2) is a Protein Coding gene. The encoded protein may modulate transcriptional activation by target nuclear receptors. It is widely expressed in the appendix, placenta, and other tissues. NRBF2/Atg38 has been identified as the fifth subunit of the macroautophagy/autophagy class III phosphatidylinositol 3-kinase (PtdIns3K) complex, along with ATG14/Barkor, BECN1/Vps30, PIK3R4/p150/Vps15, and PIK3C3/Vps34. NRBF2 is a critical molecular switch of PtdIns3K and autophagy activation, and its on/off state

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is precisely controlled by MTORC1 through phosphorylation. NRBF2, a key component, and regulator of the PtdIns3K has been involved in APP-CTFs homeostasis in Alzheimer's disease (AD) cell models. NRBF2 plays an important role in regulating the degradation of APP-CTFs through modulating autophagy.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481