

NRROS Protein, Human, Recombinant (E. coli, His & Myc)

General Information

Synonyms:	Negative regulator of reactive oxygen species;Leucine-rich repeat-containing protein 33; Transforming growth factor beta activator LRRC33;NRROS;LRRC33
Protein Construction:	19-650 aa
Species:	Human
Expression Host:	E. coli
Accession:	Q86YC3
Molecular Weight:	74.5 kDa (predicted)
AA Sequence:	WRNRSGTATAASQGVCKLVGGAADCRGQSLASVPSSLPPHARMLTLDANPLKTLWNHSLQYPYLLESLSLH SCHLERISRGAFQEQGHLRSLVLGDNCLSENYEETAAALHALPGLRRLDLSGNALTEDMAALMLQNLSSLSRV SLAGNTIMRLDDSVFEGLERLRELDLQRNYIFEIEGGAFDGLAELRHLNLA FNLP CIVDFGLTRLRVLNVSYNV LEWFLATGGEEAAFELETDL SHNQLLFFPLLPQYSKLRTLLLRDNNMGFYRDLYNTSSPREMVAQFLLVDGNV TNITTVSLWEEFSSSDLADLRFLDMSQNQFQYLPDGF LRKMP SL SHLNLHQNCLMTLHIREHEPPGALTELDL SHNQLSELHLAPGLASCLGSLRFLNLSSNQLLGVPPGLFANARNITTLDM SHNQISLCPLPAASDRVGPSPCV DFRNMA SLRSLSLEGCGLGALPDCPFQGTSLTYLDLSSNWGVLNGSLAPLQDVAPMLQVLSLRNMGLHSSF MALDFSGFGNLRDLDLSGNCLTTFPRFGGSLALETDLRRNSLTALPQKAVSEQLSRGLRTIYLSQNPYDCCGV DGWGALQHGQT VADWAMVTCNLSSKIIRVTELPGGVPRDCKWERLDLGL

QC Testing

Biological Activity:	Activity has not been tested. 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:	Tris-based buffer, 50% glycerol

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:

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

Key regulator of transforming growth factor beta-1 (TGFβ1) specifically required for microglia function in the nervous system. Required for activation of latent TGF-beta-1 in macrophages and microglia: associates specifically via disulfide bonds with the Latency-associated peptide (LAP), which is the regulatory chain of TGFβ1, and regulates integrin-dependent activation of TGF-beta-1. TGF-beta-1 activation mediated by LRRC33/NRROS is highly localized: there is little spreading of TGF-beta-1 activated from one microglial cell to neighboring microglia, suggesting the existence of localized and selective activation of TGF-beta-1 by LRRC33/NRROS. Indirectly plays a role in Toll-like receptor (TLR) signaling: ability to inhibit TLR-mediated NF-kappa-B activation and cytokine production is probably a consequence of its role in TGF-beta-1 signaling.

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