

NRROS Protein, Mouse, Recombinant (His)

General Information

Synonyms: Transforming growth factor beta activator LRRC33;Nrros;Lrrc33;Leucine-rich repeat-containing protein 33;Negative regulator of reactive oxygen species

Protein Construction: 29-651 aa

Species: Mouse

Expression Host: E. coli

Accession: Q8BMT4

Molecular Weight: 73.2 kDa (predicted)

AA Sequence: ASQGGCKVVDGVADCRGLNLASVPSLPPHSRMLILDANPLKDLWNHSLQAYPRENLSSLHSCHLDRISHYA
FREQGHRLNLVLADNRLESENKESAAALHTLLGLRRDLDSGNSLTEDMAALMLQNLSSLEVSLARNTLMRL
DDSI FEGLEHLVELDLQRNYIFEIEGGAFDGLTELRRNLAYNNLPCIVDFSLTQLRFLNVSYNILEWFLAAREEV
AFELEILDLSHNQLLFFPLLPQCGLKHTLLLQDNNMGFYRELYNTSSPQEMVAQFLLDGNTNITTVNLWEE
FSSDLSALRFLDMSQNFRLPDGFLKTPSLSHLNLNQNCKMLHIREHEPPGALTELDLSHNQLAELHLA
PGLTGSLRNLRFVNLSSNQLLGVPTGLFDNASSITTIDMSHNQISLCPQMVPVDWEGPPSCVDFRNMGSLRSL
SLDGCGKALQDCPFQGTSLTHLDLSSNWGVNLNGSISPLWAVAPTLQVLSLRDVLGSGAAEMDFSAFGNLR
ALDLSGNSLTSFPKFKGSLALRTLDRRNSLTALPQRVVSEQPLRGLQTIYLSQNPYDCCGVEGWGALQQHF
TVADLSMVTCNLSSKIVRVVELPEGLPQGCKWEQVDTGL

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 (Probable).

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