# Nanodisc Human GRID2 Protein

**HDFP738**

## Product Information

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| **Product SKU**: | HDFP738 | **Expression Host**: | HEK293 | **Size**: | 10µg |
| **Target**: | GRID2 | **Tag**: | C-Flag Tag | | |

## Additional Information

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| **Conjugate**: | Unconjugated | **Uniprot ID:** | O43424 |
| **Molecular Weight:** | The human full length GRID2 protein has a MW of 113.4kDa | | |

## Protein Information

**Background**: The protein encoded by this gene is a member of the family of ionotropic glutamate receptors which are the predominant excitatory neurotransmitter receptors in the mammalian brain. The encoded protein is a multi-pass membrane protein that is expressed selectively in cerebellar Purkinje cells. A point mutation in the mouse ortholog, associated with the phenotype named 'lurcher', in the heterozygous state leads to ataxia resulting from selective, cell-autonomous apoptosis of cerebellar Purkinje cells during postnatal development. Mice homozygous for this mutation die shortly after birth from massive loss of mid- and hindbrain neurons during late embryogenesis. This protein also plays a role in synapse organization between parallel fibers and Purkinje cells. Alternate splicing results in multiple transcript variants encoding distinct isoforms. Mutations in this gene cause cerebellar ataxia in humans. [provided by RefSeq, Apr 2014]

**Synonyms**: GluD2, SCAR18

**Protein Description**: Human GRID2 full length protein-synthetic nanodisc

**Formulation**: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions. Do not use solvents with a pH below 6.5 or those containing high concentrations of divalent metal ions (greater than 5 mM) in subsequent experiments.

**Contact Details | Dublin, Ireland**
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| **Protein Pathways**: | - |
| **Protein Families:** | Ion Channels: Glutamate Receptors. |
| **Usage**: | Research use only |
| **Storage & Shipping**: | Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature. |

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