

## Product datasheet for PH310477

### NUDT15 (NM\_018283) Human Mass Spec Standard

#### Product data:

|                                       |  |
|---------------------------------------|--|
| Product Type:                         | Mass Spec Standards  |
| Description:                          | NUDT15 MS Standard C13 and N15-labeled recombinant protein (NP_060753)   |
| Species:                              | Human  |
| Expression Host:                      | HEK293   |
| Expression cDNA Clone or AA Sequence: | RC210477   |
| Predicted MW:                         | 18.4 kDa   |
| Protein Sequence:                     | >RC210477 representing NM_018283<br><b>Red</b> =Cloning site <b>Green</b> =Tags(s)<br><br>MTASAQPRGRRPGVGVGVVVTSCKHPRCVLLGKRKGSVGAGSFQLPGGHLEFGETWEECAQRETWEEAAL<br>HLKNVHFASVVNSFIEKENYHYVTILMKGEVDVTHDSEPKNVEPEKNESWEWVPWEELPPLDQLFWGLRC<br>LKEQGYDPFKEDLNHLVGKGNHL<br><br><b>TR</b> TRPLEQK <b>L</b> ISEEDLAAND <b>I</b> LDYKDDDDK <b>V</b> |
| Tag:                                  | C-Myc/DDK  |
| Purity:                               | > 80% as determined by SDS-PAGE and Coomassie blue staining  |
| Concentration:                        | >0.05 µg/µL as determined by microplate BCA method   |
| Labeling Method:                      | Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine   |
| Buffer:                               | 25 mM Tris-HCl, 100 mM glycine, pH 7.3   |
| Storage:                              | Store at -80°C. Avoid repeated freeze-thaw cycles.   |
| Stability:                            | Stable for 3 months from receipt of products under proper storage and handling conditions.   |
| RefSeq:                               | <a href="#">NP_060753</a>  |
| RefSeq Size:                          | 2022   |
| RefSeq ORF:                           | 492  |
| Synonyms:                             | MTH2; NUDT15D  |
| Locus ID:                             | 55270  |
| UniProt ID:                           | <a href="#">Q9NV35</a>   |

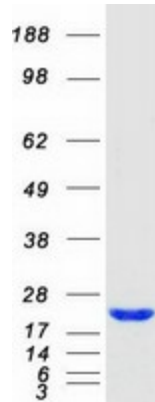


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Cytogenetics: 13q14.2

**Summary:** This gene encodes an enzyme that belongs to the Nudix hydrolase superfamily. Members of this superfamily catalyze the hydrolysis of nucleoside diphosphates, including substrates like 8-oxo-dGTP, which are a result of oxidative damage, and can induce base mispairing during DNA replication, causing transversions. The encoded enzyme is a negative regulator of thiopurine activation and toxicity. Mutations in this gene result in poor metabolism of thiopurines, and are associated with thiopurine-induced early leukopenia. Multiple pseudogenes of this gene have been identified. [provided by RefSeq, Apr 2016]

### Product images:



Coomassie blue staining of purified NUDT15 protein (Cat# [TP310477]). The protein was produced from HEK293T cells transfected with NUDT15 cDNA clone (Cat# [RC210477]) using MegaTran 2.0 (Cat# [TT210002]).