# NOSIP Protein, Human

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| **Cat. No.:** | HY-P701597 |
| **Synonyms:** | NOSIP; Nitric oxide synthase-interacting protein; E3 ubiquitin-protein ligase NOSIP; RING-type E3 ubiquitin transferase NOSIP; eNOS-interacting protein |
| **Species:** | Human |
| **Source:** | E. coli |
| **Accession:** | Q9Y314 (T2-A301) |
| **Gene ID:** | 51070 |
| **Molecular Weight:** | |

## PROPERTIES

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| **Appearance** | Solution. |
| **Formulation** | Supplied as a 0.22 μm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol. |
| **Endotoxin Level** | <1 EU/μg, determined by LAL method. |
| **Reconsititution** | Please use rapid thawing with running water to thaw the protein. |
| **Storage & Stability** | Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles. |
| **Shipping** | Shipping with dry ice. |

## DESCRIPTION

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| **Background** | NOSIP is a crucial E3 ubiquitin-protein ligase essential for proper development of the forebrain, eye, and face. It plays a pivotal role in cellular processes by catalyzing the monoubiquitination of the serine/threonine-protein phosphatase 2A (PP2A) catalytic subunit PPP2CA/PPP2CB. Moreover, NOSIP serves as a negative regulator of nitric oxide production by inducing the translocation of NOS1 and NOS3 to the actin cytoskeleton, ultimately inhibiting their enzymatic activity. This dual functionality highlights the significance of NOSIP in both developmental processes and the regulation of nitric oxide signaling, underscoring its versatile role in cellular homeostasis. |



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