NRAS Protein, Human (N-His)

Cat. No.:	HY-P73741A
Synonyms:	GTPase Nras; Transforming protein N-Ras; NRAS; HRAS1
Species:	Human
Source:	E. coli
Accession:	P01111 (M1-C186)
Gene ID:	4893
Molecular Weight:	Approximately 23 kDa

PROPERTIES

AA Sequence	M T E Y K L V V V G A G G V G K S A L T I Q L I Q N H F V D E Y D P T I E D S Y R K Q V V I D G E T C L L D I L D T A G Q E E Y S A M R D Q Y M R T G E G F L C V F A I N N S K S F A D I N L Y R E Q I K R V K D S D D V P M V L V G N K C D L P T R T V D T K Q A H E L A K S Y G I P F I E T S A K T R Q G V E D A F Y T L V R E I R Q Y R M K K L N S S D D G T Q G C M G L P C
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μm filtered solution in PBS (pH 7.4).
Endotoxin Level	<1 EU/μg, determined by LAL method
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	NRAS, a member of the Ras protein family, is characterized by its ability to bind GDP/GTP and possess intrinsic GTPase activity. This inherent property allows NRAS to actively participate in cellular processes by regulating the cycling between GDP-bound inactive and GTP-bound active states. The dynamic interplay of NRAS with guanine nucleotides underscores its role as a molecular switch, influencing downstream signaling pathways and cellular responses. As a key component in signal transduction cascades, NRAS contributes to the intricate regulation of cellular functions and plays a crucial role in various physiological and pathological processes.

Caution: Product has not been fully validated for medical applications. For research use only.

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