

## SINHCAF Protein, Human (GST)

<b>Cat. No.:</b>	HY-P700391
<b>Synonyms:</b>	Protein FAM60A; Tera protein homolog; C12orf14; FAM60A
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Accession:</b>	Q9NP50 (M1-W221)
<b>Gene ID:</b>	58516
<b>Molecular Weight:</b>	51.9 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> M F G F H K P K M Y   R S I E G C C I C R   A K S S S S R F T D   S K R Y E K D F Q S C F G L H E T R S G   D I C N A C V L L V   K R W K K L P A G S   K K N W N H V V D A R A G P S L K T T L   K P K K V K T L S G   N R I K S N Q I S K   L Q K E F K R H N S D A H S T T S S A S   P A Q S P C Y S N Q   S D D G S D T E M A   S G S N R T P V F S F L D L T Y W K R Q   K I C C G I I Y K G   R F G E V L I D T H   L F K P C C S N K K A A A E K P E E Q G   P E P L P I S T Q E   W </pre>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	<p>SINHCAF, a crucial subunit of the Sin3 deacetylase complex (Sin3/HDAC), plays a pivotal role in the repression of genes encoding components of the TGF-beta signaling pathway. As a core component of the SIN3A complex in embryonic stem (ES) cells, SINHCAF collaborates with SIN3A, HDAC1, SAP30, RBBP4, OGT, and TET1. This complex is essential for maintaining the rapid proliferation potential of ES cells while ensuring a short G1-phase of the cell cycle, thereby preventing premature lineage priming. Moreover, SINHCAF promotes the stability of SIN3A and facilitates its presence on chromatin. It interacts with the Sin3/HDAC corepressor complex, which includes BRMS1, BRMS1L, ING2, SAP30, SAP30L, and HDAC1, emphasizing its involvement in intricate regulatory networks. Additionally, SINHCAF interacts directly with SIN3A and OGT,</p>
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underscoring its integral role in the molecular interactions that govern gene expression and cellular processes in ES cells.

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

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