

GPR54- G-Protein coupled receptor type 54

Product specification

Acronym: GPR54

Synonyms: KISS1R

Origin species: Human

Protein reference : Q969F8 (UniProtKB)
AB051065.1 (GenBank).

Family: G-protein coupled receptor

Expression system: E.coli based CFPS

Format: Proteoliposomes

Protein sequence: Met1 - Leu398

Tag : Histidine tag fused to the N-terminal end of the protein

Cleavage site: Factor Xa

Product MW: 45,2 kDa

Application: Drug screening & discovery, antibody development, structural biology

Product description

G protein coupled receptor type 54 has been identified as a metastasis suppressor protein, that suppresses metastases in malignant melanomas and in some breast carcinomas without affecting tumorigenicity, by cell cycle arrest and induction of apoptosis in malignant cells. GPR54 is also essential to regulate the gonadotropic axis at puberty and in adulthood.

Recombinant protein sequence

His tag – factor X cleavage site-

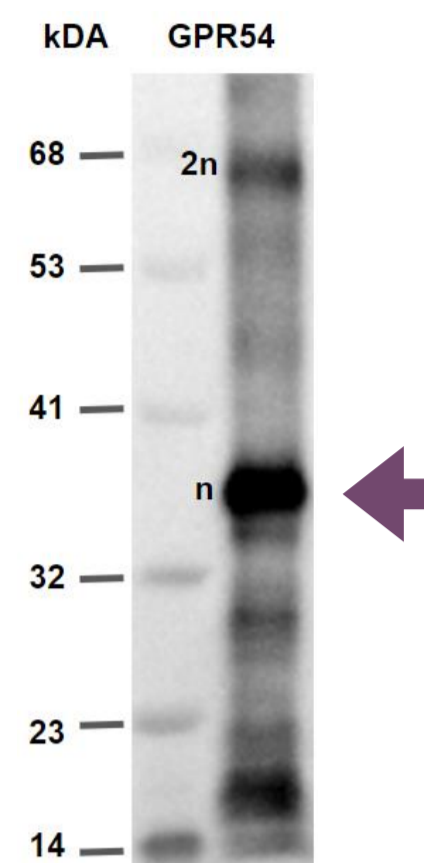
MHTVATSGPNASWGAPANASGCPGCGANASDGPVPSRAVDLWVPLFFAALMLLGLVGNLSVIYVICRHKPMRTVTNFIYIANLAATDVT
FLLCCVPFTALLYPLPGWVLGDFMCKFVNYIQQVSVQATCATLTAMSVDRWYVTVFPLRALHRRTPRALAVSLSIWVGSAAVSAPVLALH
RLSPGPRAYCSEAFPSRALERAFALYNLLALYLLPLLATCACYAAMLRLHLGRVAVRPAPADSALQGQVLAERAGAVRAKVSRLVAAVVLLFAA
CWGPIQLFLVLQALGPAGSWHPRSYAAYALKTWAHCMSYSNSALNPLLYAFLGSHFRQAFRRVCPCAPRRRRRRPGSPDPAAPHAELLR
LGSHPAPARAQKPGSSGLAARGLCVLGEDNAPL

Quality analysis

Purity: Typically, > 60% as determined by SDS-Page and Coomassie Blue staining.

Purification procedure: As standard, GPR54 proteoliposomes are purified on a sucrose gradient. Further purification steps can be added if required.

Fig.1: GPR54 Proteoliposome after purification (Western blot identification), n: monomer, 2n: dimer.



Formulation

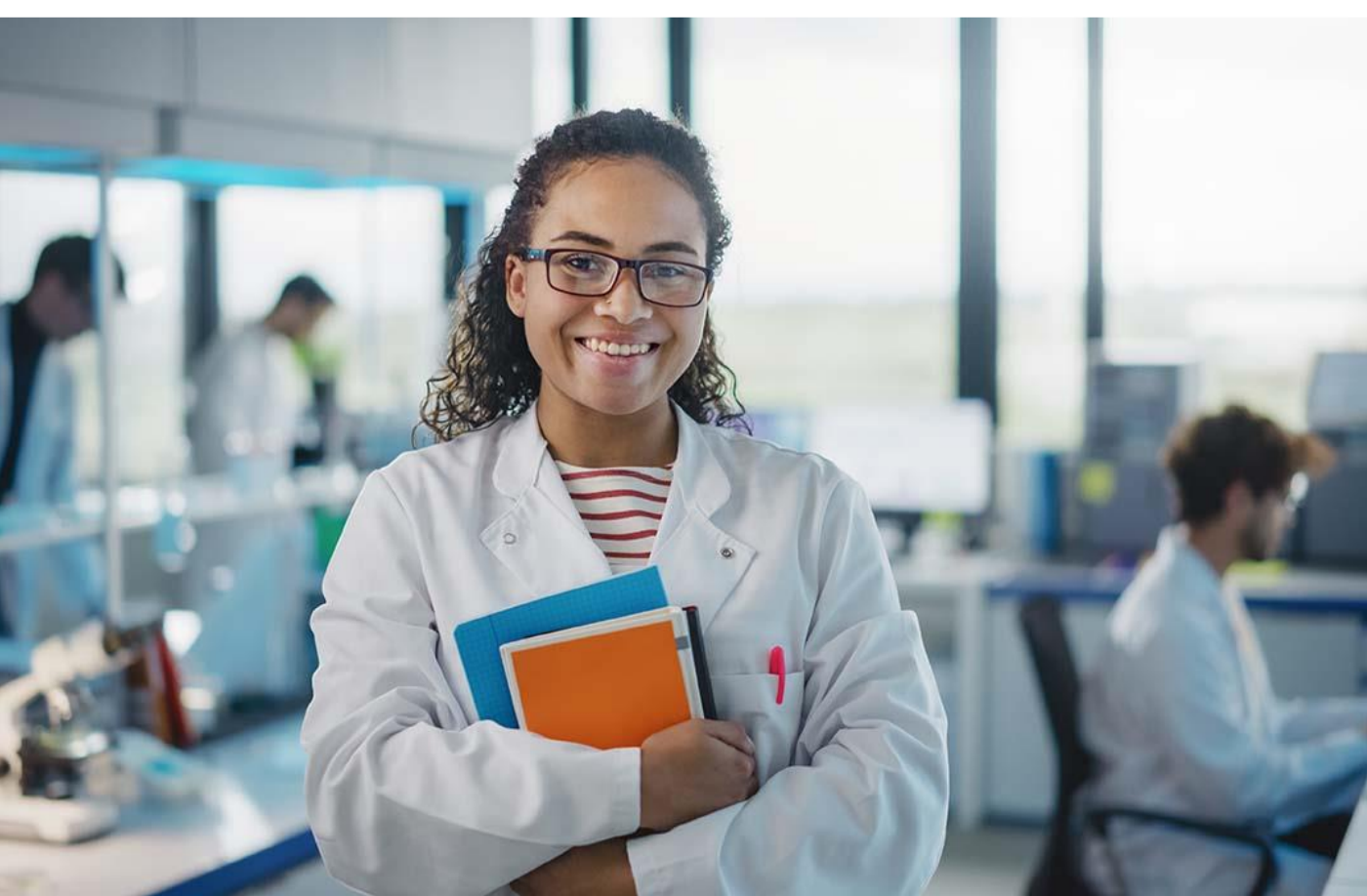
Buffer: Available in Tris 50mM, pH 7.5. Other buffers or customized formulation can be provided upon request.

Customized Hydrophobic matrix: Customized formulation with specific lipids like PEGylated or biotinylated lipids can be used upon request, as well as targeting molecules.

Storage/Stability: Store at +4°C for up to one week or several months at -80°C. Aliquot for storage.
Do not freeze-thaw after aliquoting.

Use restrictions: For life science research use only.

Available sizes: 10µg, 20µg, 100µg, 200µg, 500µg - higher quantity on request.



Need a specific amount, a quote or any additional information?
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