

Cy5-Protein G

Catalog #: T7020-10; T7020-50; T7020-200

- Also Known as:** Cy5 labeled protein G
- Quantity:** T7020-10 (10 µg); T7020-50 (50 µg); T7020-200 (200 µg)
- Species:** *G Streptococci*
- Protein Production:** Recombinant protein G containing only the IgG binding domains
- Mol. Weight:** 22 kDa
- Application:** Time resolved (TR)-FRET assays or fluorescent assays
- Stock Buffer:** 10 mM PBS, pH 7.2, 10% Glycerol
- Purity:** > 95%
- Concentration:** See tube label
- Description:** Cy5 is covalently conjugated on lysines of recombinant protein G. The molar ratio between fluorescein and protein G in different lots is ~1 - 2. Protein G has higher affinity than protein A in binding of mouse, human, rat, goat and cow IgG.

Cy5-protein G recognizes various antibodies and can serve as the acceptor in TR-FRET assays that offer a sensitive tool in monitoring molecular proximity, post-translational modifications, enzyme activity and protein abundance. The donor is usually a europium-based chelator.

Cy5-protein G can also be used in various fluorescent assays, including fluorescent western blotting and immunofluorescence microscopy.

- Storage:** Store at -80°C; Avoid multiple freeze-thaw cycles

