Figure 1. Fab and Fc portions of the IgG antibody by their unique characteristics relating to:

- One fragment-crystallizable (Fc) portion that interacts with the complement system or cell surface receptors, notably FcR receptors, to activate the immune system.
- Two identical fragment antigen-binding portions (Fab) that bind the target epitope or recognize specific ligands.

Bioavailability

Bioavailability is measured by the fraction of the dose of the administered drug that is absorbed and reaches systemic circulation. It is a critical parameter in drug development as it determines the availability of the drug for the intended therapeutic effect. Various factors can influence bioavailability, such as the formulation, absorption, distribution, metabolism, and excretion of the drug.

Methods

Mercaptoethanol

Mercaptoethanol is a reducing agent that is used to disrupt disulfide bonds in proteins, allowing for the separation of proteins based on size and charge. It is commonly used in the preparation of samples for electrophoresis or Western blotting.

Pharmacological Properties

A 75% reduction in migraine frequency was observed within 4 weeks. (Figure 8) The ability of ALD403 (eptinezumab) to inhibit CGRP receptor activity in vivo was shown to correlate with clinical efficacy.

References