

Human (Female) Adipose Tissue - Subcutaneous Fat Cells

Catalog No.	CSI20380A	Quantity:	5 g
	CSI20380B		10 g

Description: In histology, adipose tissue or body fat or just fat is loose connective tissue composed of adipocytes. Adipose tissue is derived from lipoblasts. Its main role is to store energy in the form of fat, although it also cushions and insulates the body. Obesity or being overweight in humans and most animals does not depend on body weight but on the amount of body fat, to be specific, adipose tissue. In humans, adipose tissue is located beneath the skin (subcutaneous fat), around internal organs (visceral fat), and in the bone marrow (yellow bone marrow). Adipose tissue is found in specific locations, which are referred to as 'adipose depots.' Adipose tissue contains several cell types, with the highest percentage of cells being adipocytes, which contain fat droplets. Other cell types include fibroblasts, macrophages, and endothelial cells. Adipose tissue contains many small blood vessels. In the integumentary system, which includes the skin, it accumulates in the deepest level, the subcutaneous layer, providing insulation from heat and cold. Around organs, it provides protective padding. However, its main function is to be a reserve of lipids, which can be burned to meet the energy needs of the body. Adipose depots in different parts of the body have different biochemical profiles.

Source: Single human donor, obtained by abdominoplasty. Birth year and race provided.

Formulation: Raw Frozen Tissue

Storage & Stability: Store at -80°C.
Due to differing stabilities of various biomarkers in this complex biological material, it is not possible to assign a single expiration date that is relevant to all biomarkers. The end user should monitor the biomarkers of interest to verify stability over time.

Infectious Disease Statement: Not tested for infectious diseases. This material should be handled at Bio-Safety Level 2 (BSL 2) as recommended for potentially infectious human serum or blood specimen in the CCD/NIH manual "Biosafety in Microbiological and Biomedical Laboratories", 2009.

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